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UNITED STATES GOVERNMENT

# Memorandum

TO : The Files: Contract 7161

EP 66-150  
DATE: 24 June 1966

FROM : Mr. [REDACTED] 25X1A9a

SUBJECT: Inspection Report No. 3 - [REDACTED]

25X1A5a1

## 1. Project Description:

The PM-18 phase modulates the HF signal of a frequency synthesizer or crystal oscillator. The modulator is keyed to produce pulses of 0.85 millisecond duration spaced at 2.25 millisecond intervals. A unit of information is conveyed by the relative phase ( $0^\circ$ ,  $120^\circ$ ,  $240^\circ$ ) of each pulse with respect to the phase of the two preceding pulses. Three serial pulses identify a particular character, so that a total of 33 or 27 separate character codes is possible. Since the character transmission is three intervals of 2.25 milliseconds each, or 6.75 milliseconds, a message of 2400 characters can be transmitted in approximately 16.8 seconds. The triphase signal is then used to drive agent transmitters such as the RT-48 and the RT-49. The PM-18 is combined with the KE-32 to form one package 17.6 cubic inches in size.

## 2. Contractual Information:

- a. Funds Obligated: \$50,491.00
- b. Request for Procurement Action: 25 August 1965
- c. Initiation Date: 15 November 1965
- d. Completion Date: Phase I - 18 April 1966  
Phase II - 3 months ARO
- e. Deliverable Items: Phase I - One engineering model PM-18  
Phase II - Five preproduction models PM-18

## 3. Date of Meeting: 14 June 1966

## 4. Place of Meeting: Chatsworth, California

## 5. Persons Attending:

<u>Agency</u>	<u>Non-Agency</u>
25X1A9a	Mr. [REDACTED]
	Mr. [REDACTED]
	Mr. [REDACTED]

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## 6. Contractor's Performance:

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Excluded from automatic  
declassification

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6. Contractor's Performance:

- a. On schedule and expected to remain so: See Below
- b. Within obligated funds and expected to remain so: See Below
- c. Satisfactory technical progress: Yes

7. Project Status:

The prototype PM-18 is expected to be completed by the end of June. Phase II will not be initiated until this prototype unit shows acceptable performance. Acceptance testing should not take more than a month if no problems are encountered.

25X1A5a1 [REDACTED] attributes the variance to the addition of a control switch to prevent standby power drain. This is true; I requested that the PM-18 not consume power when in standby. This request came as soon as I discovered the reverse was true. Unfortunately, it has required that new castings be made for the chassis, new drawings, more engineering time, etc. For these reasons, [REDACTED] is submitting a request for time extension and additional funds.

25X1A9a

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(24 June 1966)

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